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It is desirable that a person thus appointed should work under the supervision of an investigator who is known to the authorities of the Carnegie Institution to be engaged in an important field of scientific research, and in a place where there is easy access to libraries and apparatus—but there may be exceptions to this.

Applications for appointments may be presented by the head of, or by a professor in, an institution of learning, or by the candidate. They should be accompanied by a statement of the qualifications of the candidate, of the research work he has done, and of that which he desires to follow, and of the time for which an allowance is desired. If he has already printed or written anything of interest, a copy of this should be enclosed with the application.

Communications upon this subject should be distinctly marked on the outside envelope, and on the inside, 'Research Assistant,' and should be addressed to the Carnegie Institution of Washington, Bond Building, Washington, D. C.

SCIENTIFIC NOTES AND NEWS.

As all our readers know, the American Association for the Advancement of Science, the American Society of Naturalists and about twenty affiliated societies are meeting this week at St. Louis. Several of the most important national societies devoted to the biological sciences, or their eastern branches, are meeting in Philadelphia. The American Philosophical Association is meeting at Princeton, and there are more or less local meetings in other cities. At the time of going to press information in regard to these meetings has not reached us; but we shall as usual publish full reports in the issue of next week and in subsequent issues.

M. EMILE BERTIN has been elected a member of the Paris Academy of Sciences in the section for geography.

M. H. GRÉHANT, professor of physiology in the Paris Museum of Natural History, has been elected a correspondent of the Philadelphia Academy of Natural Science.

PROFESSOR LUDWIG BOLTZMANN, of Leipzig, has been elected an honorary member of the Academy of Sciences at Moscow.

PROFESSOR OTTO BÜTSCHLI, professor of zoology and paleontology of the University of Heidelberg, has been appointed an honorary member of the Universities of St. Petersburg and Moscow.

THE honorary doctorate of the University of Marburg has been conferred on Dr. Theodor Tschernyshev, of St. Petersburg, director of the Russian Geological Committee.

THE University of Munich has conferred an honorary doctorate of philosophy on Mr. L. Cockayne, of Christ Church, New Zealand.

MR. A. J. EVELAND, a graduate student in geology and mineralogy of the Johns Hopkins University, has been appointed geologist to the Mining Bureau established by the United States Government in the Philippine Islands.

MR. JOHN SHAFER, formerly custodian of botany at the Carnegie Museum of Pittsburg, has been appointed custodian of the Museum of the New York Botanical Gardens.

PROFESSOR PAUL EHRLICH, director of the Royal Institute for Experimental Therapeutics at Frankfurt, a/M, will deliver the first course of Herter lectures at the Johns Hopkins University Medical School. Professor Ehrlich's lectures will be in German, and will probably present the results of his researches on immunity.

DR. G. SIMS WOODHEAD, professor of pathology at Cambridge University and member of the Royal Commission on Tuberculosis, gave the third Henry Phipps Institute lecture on December 29 at Philadelphia, his subject being 'Paths of Infection in Tuberculosis.'

THE Bradshaw lecture was delivered before the Royal College of Surgeons on December 9 by Mr. Henry Morris, the subject being 'Cancer and its Origin.'

A SPECIAL meeting of the Scottish Geographical Society was held at Edinburgh on December 17, under the presidency of Professor James Geikie. An address was delivered by Sir Thomas H. Holdich on 'The Patagonian Andes.'

A CABLEGRAM to the daily papers states that Dr. Alexander Graham Bell arrived at Genoa on December 27. He will convey to the Smithsonian Institution at Washington, D. C., the remains of James Smithson, founder of the institution, who died in Genoa in 1829.

WE learn from the *Botanical Gazette* that the large herbarium of the late Professor C. Haussknecht will be maintained by his family under the auspices of the Thuringian Botanical Society.

It is announced that Dr. Oscar Guttmann has presented to the London Chemical Society a photograph of the portrait of Roger Bacon in possession of Lord Sackville at Knole House, Sevenoaks.

DR. FRIEDRICH GOLL, professor of pharmacology at Zurich, has died at the age of seventy-three years.

WE regret to record the death of M. Proust, professor of hygiene of the University of Paris and inspector general of the Sanitary Service; of Dr. Eugene Askenasy, honorary professor of plant physiology at the University of Heidelberg; and of Dr. Ottmar Schmidt, professor of chemistry in the Institute of Technology at Stuttgart.

DR. P. CHALMERS MITCHELL, secretary of the London Zoological Society, writes to the *London Times*: The recent death of the Polar bear, a popular favorite at the Zoological Gardens since 1895, has caused some interest and has been the occasion of many published comments based on inaccurate information. Perhaps you will allow me space to state the facts. The bear was in good health and spirits and fed well until the afternoon of Sunday, November 1, when, soon after taking food, it fell backwards and died almost instantaneously. The *post-mortem* changes were unusually rapid, and next day an examination was made in the presence of Mr. Beddard, the society's prosector, and myself, and a preliminary diagnosis was arrived at. Subsequently Dr. Salaman, pathologist to the London Hospital, a fellow of the society, who has very kindly placed his services at the disposal of the society until the return from abroad of

the special pathologist recently appointed by the council, made a careful examination of the material that we had reserved, and established the correctness of the preliminary diagnosis that the cause of death was an aortic aneurism. The case was of great scientific interest, and Dr. Salaman will communicate to a future scientific meeting of the society a detailed account of it. I may say now, however, that, except for the local lesion, the organs and tissues were healthy, and it is extremely improbable that the creature suffered. It would have been impossible to make the diagnosis during life, or, had we known of the existence of the disease, to have taken any steps for its treatment. I may add that, while in the past very considerable additions to anatomical knowledge have been made at the prosectorium attached to the gardens, the council of the society, by increasing the accommodation for pathological work and by appointing a special pathologist, hope that additions to knowledge of the treatment of animals will be made.

BARON EDMUND DE ROTHSCHILD has placed in the hands of M. Albert Gaudry, president of the Paris Academy of Sciences the sum of 10,000 francs to enable him to secure for the Paris Museum of Natural History the more valuable specimens in the Filhol paleontological collection.

ACCORDING to Reuter's Agency, Mr. Bruce, the leader of the Scottish Antarctic Expedition which was sent out last year on board the *Scotia*, has arrived at Montevideo from the Falkland Islands. He reports that all is well in the *Scotia*, which is on the way to Buenos Ayres. Six men have been left behind in charge of a meteorological station. The news of the safe return of the Scottish Antarctic Expedition has come some two or three months earlier than was expected. It was not originally Mr. Bruce's intention to winter in the Antarctic, but it was understood that if he did so nothing would be heard of the expedition after its departure from Port Stanley, Falkland Islands, until March of next year. The meteorological station referred to by the explorer at which six of his men have been left appears to be the station set up by Mr. Bruce at Cape Pembroke, Falkland Islands,

before the *Scotia* left for the southern seas in January last.

THE National Geographic Society has recently moved into its new home, the Gardiner Greene Hubbard Memorial Hall. As the building is not entirely completed, the formal opening of the hall will be deferred for the present. The society offers three courses of meetings during the season of 1903-1904—a regular or scientific series of ten meetings; a popular series of ten illustrated lectures, and an afternoon or lenten series of five popular lectures.

A SPECIAL Roentgen Congress and Exhibition is to be held at Berlin during the spring to celebrate the tenth anniversary of the discovery of the X-rays. Professor Roentgen is expected to be present at the congress. Further information can be obtained from Dr. Immelmann, Lützowstr. 72, Berlin, W., Germany.

THE annual dinner of the Institute of Chemistry of Great Britain took place on December 14. Speeches were made by the president, Dr. Davis Howard, Sir William Huggins and Sir William Ramsay.

THE Canadian papers state that at a meeting of the board of directors of the Canadian Forestry Association, held at the office of Mr. E. Stewart, Dominion Superintendent of Forestry, the treasurer reported the receipt of a grant of \$300 from the Government of Ontario to assist in the work of the association, and that the governments of Quebec and British Columbia had also promised assistance. The membership has reached the number of 420, and, with the improved financial position in which the association finds itself, it is proposed to extend the sphere of its activities. The establishment of a journal devoted specially to forestry interests was discussed, and it was decided to report favorably to the annual meeting. The publication will, if started, be managed by the association, and will probably be at first a quarterly, with the expectation of being finally issued as a monthly. It is hoped in this way to call public attention more distinctively to the work of the associa-

tion, and to the importance of proper forest management.

UNIVERSITY AND EDUCATIONAL NEWS.

At the forty-ninth quarterly convocation of the University of Chicago President Harper announced that Mr. John D. Rockefeller had given to the university \$1,500,000 in real estate and \$350,000 in cash. A donor, whose name was not made public, has given \$1,096,466 for a special purpose not yet designated.

It is stated that Mrs. Phoebe Hearst will provide a building for the Department of Botany of the University of California.

A GIFT of \$1,000 from Edward Mallinckrodt, of St. Louis, has enabled the department of chemistry of Harvard University to refurnish the library of Boylston Hall and to buy several hundred new books. E. Mallinckrodt, Jr., has added to this a sum to be paid annually for the next five years to defray the running expenses of the library. The collection of books has also been enlarged by several gifts from Dr. Wolcott Gibbs.

WE learn from the London *Times* that the late Mr. Charles Seale-Hayne, M.P., has under his will provided for the establishment of a College of Science, Art and Agriculture in the neighborhood of Newton Abbot, open to students of the county of Devon. Details will be left to the executors. It is thought that about £150,000 will be handed over for the college.

DR. HORACE CLARK RICHARDS, instructor in physics in the University of Pennsylvania, has been promoted to an assistant professorship of physics.

MR. HENRY BALFOUR, M.A., of Trinity College, Oxford, has been elected to fellowship at Exeter College. Mr. Balfour has been for some years curator of the Pitt-Rivers Museum. He is also president of the Anthropological Institute, and president-elect of the Anthropological Section of the British Association for 1904.

DR. HERMANN GRASSMANN, docent at Halle, has been promoted to an assistant professorship of mathematics.